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List of Co-ordinates of Stars within or near the Milky Way.

By A. Marth, Esq.

The second half of the list of co-ordinates requires but little explanation. The extended breadth of the Milky Way in Heis's representations of it in his *Atlas Cœlestis Novus* has induced me to extend the computation of co-ordinates to all the leading stars between the galactic polar-distances 70° and 110°. Where the magnitudes do not depend on either Argelander's or Heis's estimations or on those of Sir John Herschel in his paper, "On a Review and Rearrangement of the Constellations," &c., in the twelfth vol. of the *Memoirs*, they are those of the B.A.C. and enclosed in brackets. In consequence of the want of a trustworthy catalogue of magnitudes of Southern stars, some stars may have been inserted in the list which scarcely deserve it.

(*Continued from page* 14.)

x in.	*y* in.	Mag. in.	Star.	B.A.C.
36·28	7·47	2·7	κ Orionis	1843
·32	5·96	4·7	5 Monoc.	2015
·36	1·15	1	Procyon	2522
·37	5·25	5	10 Monoc.	2094
·66	4·91	6	..	wanting
·70	2·92	4·3	22 Monoc.	2358
·78	1·80	5·7	δ' Can. Min.	2480
·78	6·94	5·3	3 Monoc.	1936
36·79	5·43	4·3	11 ,,	2105
37·30	0·96	5·7	ζ Can. Min.	2612
·32	7·50	3·7	η Leporis	1901
·36	3·86	6	..	wanting
·48	0·45	5	12 H. Can. Min.	2673
·48	5·07	6	..	wanting
·49	4·58	6	..	wanting
·68	6·63	5	..	wanting
·68	7·15	5	θ Leporis	1959
·92	3·01	6	..	2437
·94	7·34	5	17 Leporis	1955
37·97	2·18	5·3	25 Monoc.	2513
38·12	0·87	5·3	28 ,,	2668
·27	4·82	4·3	θ Canis	2264
·47	3·78	6	..	wanting
·52	5·36	5	11 Canis	2221
·60	0·72	4·7	29 Monoc.	2725
·60	1·65	6	..	wanting
·61	6·72	2·7	β Canis	2061
·67	4·93	5	μ ,,	2273

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x in.	y in.	Mag. in.	Star.	B.A.C.
38·88	5·64		Sirius	2213
39·01	2·57	4·3	26 Monoc.	2542
·13	4·76	4·3	γ Canis	2319
·15	6·24	5	ν^2 „	2171
·20	5·22	4·7	ι „	2274
·24	0·81	cl.	VI. 22 = *h.* 496	(2766)
·24	0·10	3·7	30 Monoc.	2825
·42	4·24	6	..	wanting
·63	1·49	6	..	wanting
·63	6·00	cl.	Mess. 41	(2217)
·67	3·40	5·7	..	wanting
·74	3·28	cl.	VIII. 38 = *h.* 459	2511
·80	6·65	5	ξ^2 Canis	2160
·81	6·82	5	ξ^1 „	2132
39·95	2·77	5	4 Puppis	2573
40·16	4·34	5·7	..	wanting
·39	1·70	5	19 Puppis	2750
·42	5·98	5	o' Canis	2267
·56	5·59	3·3	o^2 „	2318
·77	5·00	5	..	wanting
·84	7·85	2·7	ζ Canis	2051
40·99	2·79	5·3	..	2666
41·03	5·03	5 ? var.	29 Canis	2417
·03	4·44	5·7	..	wanting
·03	4·16	5	..	wanting
·10	5·08	4·7	30 Canis	2418
·13	5·62	2	δ „	2345
·21	4·31	6 ? var.	..	2497
·26	6·03	4	22 Canis	2309
·33	5·41	4·7	28 „	2391
·38	6·25	1·7	ε „	2293
·39	2·50	5	16 Puppis	2736
·47	7·74	4·3	λ Canis	2109
·49	6·98	5	10 „	2214
·53	0·38	4·7	12 Hydræ	2975
·54	8·04	4	δ Columbæ	2066
·63	4·36	5	..	2525
·67	3·38	4·7	11 Puppis	2652
·81	3·88	3·7	ξ Argûs	2602
·86	6·90	4	κ Canis	2246
·87	2·12	6	..	wanting
·89	4·49	4·3	..	2530·31
·97	3·95	5	..	2594

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x	y	Mag.	Star.	B.A.C.
in.	in.	in.		
41·98	5·30	2·7	η Canis	2458
42·07	4·78	5·3	..	2508
·19	3·14	3	15 Argûs	2728
·37	4·53	4	..	2562
·42	5·23	5	..	2484
·80	1·78	6	..	wanting
42·93	4·18	5·7	..	2655
43·22	6·32	3	π Argûs	2414
·25	5·40	(6)	..	2523
·53	6·84	(5)	..	2355
·54	4·85	(5)	..	2629
·55	5·51	(6)	..	2536
·71	8·19	3·7	ν Argûs	2188
·90	2·63	5·7	..	2932
·92	2·02	5	..	3010
·93	5·44	4·3	..	2580
·95	5·63	4·3	..	2554
43·96	3·67	(5)	..	2802
44·17	1·20	5	..	3121
·22	4·27	(5)	..	2774
·24	5·29	(5)	..	2635
·41	5·80	(4½)	..	2570
·47	4·20	(5)	..	2795
·52	5·49	4	..	2634
·56	6·50	3·7	σ Argûs	2482
·56	2·96	4	..	2964
·62	0·62	5·7	..	3195
·63	7·19	(5)	..	2392
·67	5·06	2·7	ζ Argûs	2710
·79	3·35	(5)	..	2935
44·92	7·34	(5)	..	2389
45·23	5·72	(6)	..	2661
·36	8·33	3·3	τ Argûs	2256
·46	6·20	(4½)	..	2620
·53	9·22		Canopus	2096
·66	0·35	5	θ Antliæ	3332
·84	6·26	(4)	..	2644
45·91	4·40	(5)	..	2926
46·01	5·72	2	γ Argûs	2755
·08	2·58	(5½)	..	3165
·10	6·43	(5)	..	2642
·12	6·24	(5)	..	2670
·24	2·75	(5)	..	3163

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x	y	Mag.	Star.	B.A.C.
in.	in.	in.		
46·28	2·00	(5½)	ε Antliæ	3244
·46	5·50	(5)	..	2823
·55	4·79	4·7	..	2947
·55	4·38	(5½)	..	3014
·57	4·57	4·7	..	2981
·72	3·64	2·7	λ Argûs	3126
·75	6·68	4·3	χ „	2665
·75	4·52	(6)	..	3020
46·93	2·63	4·3	ψ Argûs	3257
47·00	3·77	(5½)	..	3142
·10	5·12	(6)	..	2972
·12	5·46	(5½)	..	2915
·15	4·25	(5)	..	3110
·50	2·87	(5½)	..	3302
·51	5·60	4·3	o Argûs	2950
47·87	5·76	2·3	δ „	2979
48·03	4·50	(5)	..	3187
·15	3·00	(6)	..	3370
·17	7·43	cl.	*h.* 3111	2687
·22	2·84	(6)	..	3396
·23	5·95	(5)	..	2998
·26	3·84	(4)	..	3300
·27	6·79	2	ε Argûs	2832
·39	7·27	(5½)	..	2770
·43	4·19	(5½)	..	3280
·47	1·90	4·7	..	3509
·59	6·46	(5)	..	2962
·66	1·67	(5)	..	3552
·66	4·99	3	κ Argûs	3213
·79	6·07	(4)	..	3073
48·81	6·00	(4)	..	3089
49·00	5·77	4·3	..	3149
·12	5·12	3·7	..	3269
·15	5·70	2·7	ι Argûs	3186
·32	2·08	(6)	..	3613
·38	4·29	4·3	φ Argûs	3410
·42	3·46	(5½)	..	3499
·43	0·25	(5½)	..	3755
·45	7·48	4·7	β Volantis	2863
·48	5·40	(5)	..	3289
·49	6·24	4·7	..	3152
·71	8·04	4·7	ε Volantis	2773
·78	2·55	4·7	..	3644

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x in.	*y* in.	Mag. in.	Star.	B.A.C.
49·85	5·64	(5)	..	3320
·96	6·93	4·7	α Volantis	3114
49·98	4·00	(5)	..	3536
50·11	5·74	4·3	..	3353
·11	6·37	(5)	..	3249
·12	4·16	(5)	..	3546
·17	2·62	3	μ Argûs	3702
·18	5·10	cl.	*h.* 3224	3447
·43	4·34	(5)	..	3589
·46	6·11	3·3	*v* Argûs	3365
·55	4·53	(5)	..	3594
·58	5·11	3·7	..	3526
·59	2·00	(6)	..	3796
·61	7·23	2	β Argûs	3177
·84	4·47	(5)	..	3655
·92	5·00	4	..	3619
50·97	7·72	(5)	..	3136
51·03	4·49	var.	η Argûs	3695
·15	4·25	4·3	..	3740
·21	5·74	(5)	..	3586
·40	5·36	3·3	θ Argûs	3686
·45	4·08	cl.	*h.* 3315	3802
·48	6·61	3·7	ω Argûs	3516
·54	3·16	(4)	π Centauri	3866
·65	1·72	(6)	..	3951
·72	4·78	(6)	..	3805
51·73	4·67	(6)	..	3820
52·06	7·20	4·7	..	3585
·34	0·49	(5½)	..	4062
·40	4·68	3·7	λ Centauri	3941
·55	4·26	(5½)	..	3986
·65	7·93	(5)	γ Chamæl.	3660
·77	2·10	3	δ Centauri	4087
·79	5·35	4·3	..	3984
52·92	2·41	4·7	ϱ Centauri	4103
53·14	4·85	(4½)	η Crucis	4078
·18	3·66	3·7	δ ,,	4120
·37	3·98	4·7	ε ,,	4158
·37	4·70	(5)	ζ ,,	4133
·39	1·93	4·7	σ Cent.	4197
·44	5·49	(5½)	ε Muscæ	4129
·48	7·56	(5)	ε Chamæl.	4048
·54	4·50	1·3	α Crucis	4187

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x in.	y in.	Mag. in.	Star.	B.A.C.
53·57	3·30	1·7	γ Crucis	4215
·70	1·58	(5)	τ Cent.	4251
·70	7·75	4·7	β Chamæl.	4131
·76	6·30	4·7	γ Muscæ	4224
·82	5·70	3·3	α ,,	4245
·83	1·66	2·7	γ Cent.	4264
·89	4·46	cl.	*h.* 3407	
53·98	5·49	3·7	β Muscæ	4280
54·02	3·81	1·3	β Crucis	4289
·17	3·95	cl.	κ ,,=*h.* 3435	4320
·20	6·04	cl.	*h.* 3444	4349
·21	3·31	4·7	..	4325
·23	6·19	4·7	δ Muscæ	4353
·44	4·95	(5½)	θ ,,	4381
·53	5·48	(5)	η ,,	4426
·66	1·88	(5)	ξ^2 Cent.	4379
·79	4·84	(6)	..	4475·69
·86	4·13	(6)	..	4461·63
·90	7·37	(5)	θ Apodis	4660
54·94	0·59	(5)	..	4409
55·15	7·95	4·7	α Apodis	4833
·21	1·47	cl.	ω Cent.	4485
·58	2·73	3	ε ,,	4549
·87	4·23	1·3	β ,,	4669
55·87	2·37	(5)	..	4580
56·37	1·65	3	ζ Cent.	4638
·37	5·40	3·7	α Circini	4835
·41	0·66	4	μ Cent.	4602
·45	4·02	4·7	..	4749
·45	0·51	4	ν Cent.	4601
·53	3·61	4·7	..	4735
·61	1·20	4·3	υ^1 Cent.	4654
·63	6·40	3·3	γ Triang. aust.	5005
·68	4·64	..	α Centauri	4832
56·76	0·67	4·3	φ ,,	4653
57·10	0·59	(5)	χ ,,	4681
·19	6·79	(5)	κ Triang.	5224
·19	6·21	(5)	ε ,,	5103
·24	1·66	4·3	ι Lupi	4734
·32	2·65	(5)	σ ,,	4801
·45	5·08	(6)	δ Circini	5004
·51	1·63	(5)	τ^2 Lupi	4770
·52	1·60	(5)	τ^1 ,,	4768

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x in.	*y* in.	Mag. in.	Star.	D.A.C.
57·56	2·53	4·7	ξ Lupi	4821
·69	4·72	4·7	β Circini	5011
·76	4·89	4·7	γ ,,	5044
·80	7·55	2·3	α Triang.	5578
·86	2·21	3	α Lupi	4839
·86	0·49	(5)	..	4759
·88	6·00	3·3	β Triang.	5233
·89	0·16	(5)	ψ Cent.	4745
57·91	4·04	(5½)	..	4977
58·09	1·13	3	η Cent.	4811
·27	3·51	4·3	ζ Lupi	4987
·51	1·68	(5)	ο ,,	4892
·59	2·52	4·3	π ,,	4948
·61	2·93	4·3	κ ,,	4986
·71	0·48	4·3	..	4842
·78	1·72	3·3	β Lupi	4924
·78	5·29	(5½)	ι Normæ	5301
·88	2·28	4·7	λ Lupi	4973
·89	2·90	4·3	μ ,,	5028
·90	1·55	3·7	κ Cent.	4928
·91	4·00	(6)	..	5136
58·99	2·97	4	ν¹ Lupi	5049
59·08	4·35	(6)	..	5209
·16	4·76	(6)	..	5283
·19	8·06	4	η Pavonis	5963
·36	2·44	(4½)	ε Lupi	5056
·44	6·34	(4½)	η Aræ	5609
·72	2·76	4·3	..	5123
·77	7·38	4	δ Arae	5877
·78	1·74	4	δ Lupi	5046
59·91	2·82	4·3	..	5165
60·07	2·42	4·7	ι Lupi	5139
·08	6·15	4	ζ Aræ	5683
·12	4·43	(5½)	γ¹ Normæ	5404
·15	2·13	3·3	γ Lupi	5118
·18	4·50	4·3	γ² Normæ	5425
·28	1·16	(5)	φ² Lupi	5060
·30	1·03	4	φ¹ ,,	5054
·45	6·80	3·3	γ Aræ	5850
·53	3·47	4·7	δ Normæ	5323
·55	5·82	4·7	ε¹ Aræ	5697
·60	6·71	3·7	β ,,	5852
·61	5·92	(5)	ε² ,,	5713

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x in.	y in.	Mag. in.	Star.	B.A.C.
60·72	4·31	4·3	ε Normæ	5472
·73	4·95	4·7	..	5561
·87	4·82	(6)	..	5558
·88	5·43	(6)	ϱ Aræ	5664
·89	—0·07	4·7	2 Lupi	5032
60·93	5·48	(6)	..	5689
61·14	1·16	5	ψ^1 Lupi	5160
·16	6·89	cl.	*h.* 3692	5945
·26	2·30	4·3	η Lupi	5292
·45	6·19	(5)	κ^1 Aræ	5859
·61	1·34	5	χ Lupi	5227
·67	2·24	(4½)	θ ,,	5331
·68	6·27	3·3	α Aræ	5899
·70	0·41	4·3	ο Scorpii	5151
·76	1·55	5	ξ Lupi	5268
·86	0·11	4·3	3 H. Scorpii	5138
61·93	5·76	(6)	ι Aræ	5843
62·12	4·32	(4½)	ζ^1 Scorpii	5651
·14	4·34	4	ζ^2 ,,	5661
·21	7·26	4	θ Aræ	6105
·40	4·95	3·7	η Scorpii	5778
·41	0·84	4·7	ϱ ,,	5272
·69	2·65	(4)	..	5508
·69	0·15	5	*b* Scorpii	5232
·73	3·71	3·3	μ^1 ,,	5638
·74	2·87	(5)	..	5538
·75	3·72	3·3	μ^2 ,,	5640
·84	0·17	5	A ,,	5250
·91	0·44	3	π ,,	5289
62·96	5·68	2·3	θ ,,	5935
63·05	7·03	(4½)	ε Telesc.	6140
·10	1·12	5	*c* Scorpii	5381
·27	3·17	2·7	ε ,,	5632
·29	7·52	4·3	α Telesc.	6240
·47	—0·02	2·3	δ Scorpii	5303
·66	5·71	3·7	ι ,,	6004
·67	3·62	(5)	..	5735
·73	1·08	3·3	σ Scorpii	5447
·74	5·42	3	κ ,,	5970
·78	4·85	3·3	υ ,,	5901
·79	1·91	3·3	τ ,,	5539
·82	1·41	1·3	α ,,	5498
·88	4·92	1·7	λ ,,	5915

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x in.	y in.	Mag. m.	Star.	B.A.C.
63·91	3·28	5	..	5718
·99	−0·03	5	ω^2 Scorpii	5342
63·99	+0·58	var.	T ,,	(Nova of 1860)
64·00	−0·08	4·7	ω^1 ,,	5337
·08	−0·25	2	β ,,	5329
·09	+1·31	5	22 ,,	5501
·20	0·93	5	ϱ Ophiuchi	5477
·22	3·85	5½	..	5817
·24	5·46	3·7	..	6018
·36	−0·07	4	ν Scorpii	5382
·62	5·24	cl.	*h.* 3706	
·65	4·45	(5½)	..	5925
·68	0·42	5	ψ Oph.	5467
·71	0·90	5	ω ,,	5519
·84	4·60	cl.	Mess. 6	5960
·85	6·40	3·3	ϖ Sagittarii	6186
64·93	3·89	5	*d* Ophiuchi	5881
65·16	3·08	5	A ,,	5808
·40	6·41	2·3	ε Sagittarii	6233
·45	0·23	5	φ Ophiuchi	5516
·59	3·14	3·3	θ ,,	5851
·60	0·76	5	24 Scorpii	5579
·73	5·35	3·3	γ Sagittarii	6115
·75	4·40	var. 4–6	X ,,	6008
·76	5·54	5·3	..	6145
·84	3·20	5	*b* Ophiuchi	5876
65·85	5·23	var. 5–6·5	W. Sagittarii	6107
66·00	2·65	5	ξ Ophiuchi	5844
·01	3·37	5	c^2 ,,	5907
·16	5·87	3·3	δ Sagittarii	6209
·39	3·06	..	Nova of 1604	
·65	−0·30	2·7	ζ Ophiuchi	5548
·69	3·58	5	58 ,,	5987
·73	4·44	5	4 Sagittarii	6077
·73	4·66	6	9 ,,	6102
·78	7·65	5	..	6499
·79	1·61	2·3	η Ophiuchi	5781
·95	0·86	..	Nova of 1848	
66·97	7·48	3·3	ζ Sagittarii	6489
67·02	0·22	5	20 Ophiuchi	5637
·09	5·71	3	λ Sagittarii	6263
·18	6·56	3·7	φ ,,	6371
·48	7·47	3·7	τ ,,	6521

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x in.	y in.	Mag. in.	Star.	B.A.C.
67·50	6·88	2·3	σ Sagittarii	6440
·53	4·72	4	μ „	6168
·57	1·70	4·7	ν Serpentis	5845
·60	2·66	3·7	ξ „	5949
·62	4·74	5	15 Sagittarii	6179
·89	5·14	5	21 „	6247
67·90	3·82	6	6 „	6086
68·10	4·64	cl.	Mess. 24	(6201)
·12	2·55	4·7	ο Serpentis	5976
·13	6·53	5	ν^1 Sagittarii	6434
·17	6·56	5	ν^2 „	6441
·50	—0·07	5	30 Ophiuchi	5724
·51	6·53	4	ξ Sagittarii	6461
·54	6·87	4	ο „	6507
·78	7·02	3	π „	6548
68·84	1·89	4·7	μ Ophiuchi	5953
69·03	4·71	4·7	2 H. Scuti	6279
·07	1·10	4·7	27 H. Ophiuchi	5890
·11	2·95	3·7	ν „	6078
·32	6·00	5	..	(6447)
·34	7·17	5	*d* Sagittarii	6584
·44	5·89	6	..	wanting
·49	2·96	5	τ Ophiuchi	6104
·62	0·18	5	41 „	5830
·63	7·24	4	ρ Sagittarii	6619
69·99	7·08	4·7	υ „	6621
70·09	0·63	5·3	..	5903
·20	2·39	5	ζ Serpentis	6085
·27	4·35	4·3	3 H. Scuti	6325
·30	4·73	5	4 H. „	6361
·43	7·99	5	*e* Sagittarii	6742
·47	6·38	6	..	wanting
·47	4·71	5	5 H. Scuti	6367
·72	0·14	4·3	σ Ophiuchi	5893
70·87	3·22	3	η Serpentis	6229
71·01	1·21	3·7	γ Ophiuchi	6020
·02	4·63	var. 4·7–9	R Scuti	wanting
·11	1·95	4·7	68 Ophiuchi	6101
·18	4·52	4·7	6 H. Scuti	6388
·22	5·06	5	7 H. „	6464
·23	0·84	3	β Ophiuchi	5996
·34	5·24	4·3	12 Aquilæ	6492
·37	1·74	4	67 Ophiuchi	6092

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x in.	y in.	Mag. m	Star.	B.A.C.
71·42	1·99	4·3	70 Ophiuchi	6123
·53	0·86	cl.	..	(6012)
·62	1·59	5	66 ,,	6089
·62	5·36	3	λ Aquilæ	6526
·87	6·04	5·7	*f* ,,	6614
·95	2·58	5	74 Ophiuchi	6227
71·98	6·91	5	κ Aquilæ	6713

Corrigenda.

Page	x	
7	6·20	17 Lyræ, B.A.C. 6553
8	8·84	T Cygni, not τ
9	12·02	y 6·86 instead of 6·87
	14·93	β Cephei, ·93 dropped out
10	17·51	dele mag. 5·3
11	20·45	cl. vi. 33 = *h* Persei
	20·52	cl. vi. 34 = χ ,,
	20·74	5 H Camelop., not 9 H
12	25·28	*o* Persei, not σ
	28·08	y 3·89 instead of 3·49
	28·13	16 Aurigæ instead of 14
13	32·67	Mag. 4·7 instead of 5
	34·35	B.A.C. 1684 instead of 1730
	34·38	B.A.C. 2126 instead of 1684

5 line 25, read P.D. instead of Decl.

Note on Mr. Crossley's Paper on Meridian Marks for Transit Instruments. By Captain Noble.

With reference to the idea advanced by Mr. Crossley in his paper in the April number of the *Monthly Notices*, it may perhaps be worth mentioning that Maskelyne employed a cap with a lens of long focus, to slip over the object-glass of his transit, eighty or ninety years ago. He would appear to have derived his original notion from a Dr. Rittenhouse. Vide Smyth's *Celestial Cycle*, vol. i. (Prolegomena), p. 331.